

# Converting Colors

CIELCh(50, 41.682, 294.135)

Have a look what the booklet for  
CIELCh(50, 41.682, 294.135)  
contains.

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# Color

**CIELCh(50, 42.111, 294.518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6E70B8
RGB	110, 112, 184
RGB Percent	43%, 44%, 72%
CMY	0.5679, 0.5601, 0.2777
CMYK	0.40, 0.39, 0.00, 0.28
HSL	238°, 34%, 58%
HSV	238°, 40%, 72%
XYZ	20.9347, 18.4187, 47.8980
YIQ	119.6100, -24.3040, 21.9680

# Conversions

## Conversions Part 2

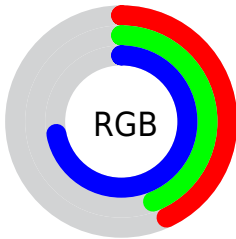
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	110, 112, 184
Decimal	7237816
CIE <sub>Lab</sub>	50.00, 17.48, -38.31
CIE <sub>LCh</sub>	50, 42.111, 294.518
Yxy	18.4187, 0.2399, 0.2111
Android (android.graphics.Color)	4285427896 (0xFF6E70B8)
YUV	119.6100, 31.7443, -8.4280
Hunter-Lab	42.9170, 11.9670, -36.1295

# Details

The CIELCh color **50, 42.111, 294.518** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **73, 38.191, 105.161**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 41.667, 294.171**, and **30, 42.108, 294.693** is the 20% darker color. If you saturate the color by 10%, you get **44, 53.693, 296.459**, and if you desaturate by 10%, it is **56, 30.976, 292.831**.

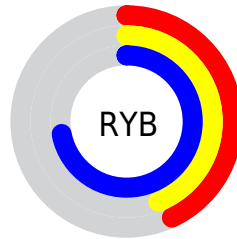
# Distribution



Red (43%)

Green (44%)

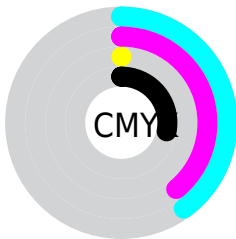
Blue (72%)



Red (43%)

Yellow (44%)

Blue (72%)

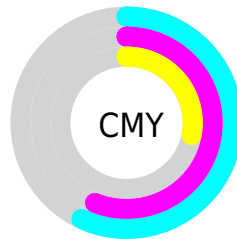


Cyan (40%)

Magenta (39%)

Yellow (0%)

Black (28%)



Cyan (57%)

Magenta (56%)


Yellow (28%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 42.111, 294.518 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 50, 42.111, 294.518 by changing the saturation by 10% instead.





 50, 42.111,  
294.518


 50, 42.111,  
294.518


 100, 42.111,  
294.518


 40, 42.111,  
294.518


 70, 42.111,  
294.518


 30, 42.111,  
294.518


 80, 42.111,  
294.518


 20, 42.111,  
294.518

 90, 42.111,  
294.518

 10, 42.111,  
294.518

 0, 42.111, 294.518

 50, 42.111,  
294.518

 50, 42.111,  
294.518

44, 53.693,  
296.459

56, 30.976,  
292.831

38, 65.631,  
298.625

62, 20.295,  
291.386

33, 77.602,  
300.912

69, 10.041,  
290.160

28, 88.836,  
303.107

75, 0.183, 289.492

24, 97.949,  
304.893

81, 9.310, 108.210

22, 103.570,  
305.963

87, 18.465,  
107.453

93, 27.305,  
106.801

99, 35.588,  
107.466

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



50, 42.111, 294.518



73, 38.191, 105.161

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



50, 42.111, 294.518



50, 42.111, 344.518



50, 42.111, 114.518



50, 42.111, 164.518

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



50, 42.110, 294.518



86, 14.718, 290.391



70, 24.349, 194.283



44, 9.781, 290.543



97, 0.011, 296.813



50, 0.007, 296.813



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



50, 42.110, 294.518



58, 63.443, 296.177



53, 44.469, 309.993



36, 5.565, 290.065



18, 91.174, 305.889



1, 15.077, 289.510





# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



55, 31.745, 21.292



65, 48.151, 22.865



71, 41.793, 125.996



36, 4.003, 17.739



32, 70.851, 38.517

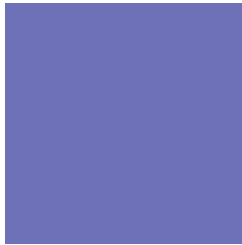


2, 10.646, 17.769



# Previews

## White Background



This preview shows how the CIELCh color 50, 42.111, 294.518 looks on a white background.

## Color Contrast Check

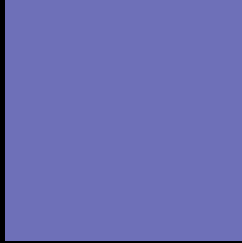
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 50, 42.111, 294.518 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

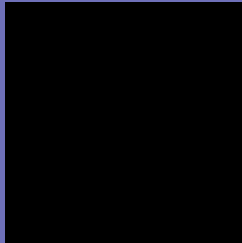
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 50, 42.111, 294.518

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 42.111, 294.518.

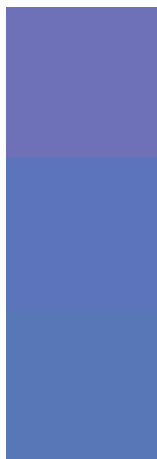


This preview shows how white text looks on a background with the CIELCh color 50, 42.111, 294.518.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color


50, 42.111, 294.518

### Protanopia

50, 42.296, 286.074

### Deuteranopia

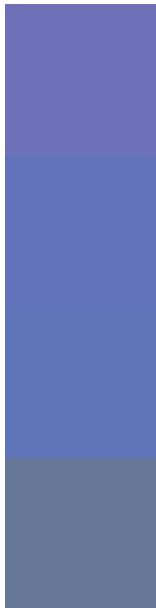
50, 37.999, 280.806



**Tritanopia**  
50, 10.685, 231.996



# Trichromacy



**Original Color**  
50, 42.111, 294.518

**Protanomaly**  
50, 42.128, 288.975

**Deuteranomaly**  
50, 38.793, 285.331

**Tritanomaly**  
50, 19.965, 275.657

# Monochromacy



**Original Color**  
50, 42.111, 294.518

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 15.228, 290.753

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 42.111, 294.518 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(110, 112, 184)` looks like.

```
.text, #text, p{  
    color:rgb(110, 112, 184)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(110, 112, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 112, 184) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 42.111, 294.518 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(110, 112, 184) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(110, 112, 184) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(110, 112, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(110, 112, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(110, 112, 184);  
box-shadow:4px 4px 4px 4px rgb(110, 112,  
184) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 42.111, 294.518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 112, 184) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(110,  
112, 184) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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